

ABSTRACT

The method for *in vitro* culture of lymphocytes involves incubating lymphocytes and cells with a particular gene expressed in a particular cancer cell line or cells, which are deficient or lowered in expression of a class 1 antigen and the particular gene has already been expressed, to amplify mainly NK cells or non-MHC-bound or MHC-bound killer T cells and then to amplify killer T cells specific to an antigen to a cancer. The *in vitro* culture of the lymphocytes can produce a group of lymphocytes composed mainly of killer cells.

The group of the lymphocytes so produced can be used for immune therapy effective even for patients with cancer in the terminal stage to whom conventional cancer treatment and cancer curing agents.